Methyl Methacrylate (MMA) Flooring Primer
Product #691

DESCRIPTION
Product #691 Methyl Methacrylate (MMA) Flooring Primer is a 100% reactive Methyl Methacrylate primer for all Epoxy.com MMA floor and wall systems. Epoxy.com Product #691 Methyl Methacrylate (MMA) Flooring Primer also provides excellent filling and sealing as a scratch work filler (with filler added) to level uneven floor and wall surfaces. Product #691 Methyl Methacrylate (MMA) Flooring Primer is a reactive Methyl Methacrylate resin, which hardens rapidly with the addition of Product #695 MMA hardener, even at low temperatures.

ADVANTAGES
- Fast cure (60 min.) for rapid recoat.
- Good wetting properties for excellent bond to concrete.
- VOC compliant (100% solids).
- Full strength in less than 1 hour.
- Use over wide temperature range - even below freezing.

CONSIDERATION
- Substrate must be dry and free of dirt, waxes, curing agents and other foreign materials.
- Should not be installed on fresh concrete until maximum shrinkage has occurred (at least 30 days after placement).
- On or below grade installation must have an efficient vapor barrier under the slab (minimum 10-15 mil).
- Moisture Vapor Transmission must be less than 3 lbs per ASTM-F-1869 and less than 80% RH per ASTM F-2170.

**COMPOSITION**

Epoxy.com Product #691 Methyl Methacrylate (MMA) Flooring Primer is a 100% reactive Methyl Methacrylate resin.

**COLOR SELECTION**

Epoxy.com Product #691 Methyl Methacrylate (MMA) Flooring Primer is supplied clear. Color packs are available for selected colors. Color pack mix ratio is 1 quart pigment per 5 gallons resin. See Epoxy.com MMA Color Card.

**SURFACE PREPARATION**

Surface preparation is the most critical portion of any successful resinous flooring system. All substrates must be properly prepared as outlined in Epoxy.com Surface Preparation Guide.

**MIXING AND INSTALLATION**

Epoxy.com Product #691 Methyl Methacrylate (MMA) Flooring Primer requires the addition of Epoxy.com Product #695 Hardener to start the hardening process. The amount of hardener must be adjusted to the respective surface temperature (see table below). At temperatures below 40°F, Accelerator 101 must be used in addition to the amount of hardener used at the 40°F level (about ° oz by vol./gal. @ 32°F up to 2.0 oz by vol./gal. @ -20°F).

<table>
<thead>
<tr>
<th>Epoxy.com Product #691 MMA Primer</th>
<th>SUBSTRATE/MATERIAL TEMPERATURE (°F)</th>
<th>Epoxy.com Product #695 MMA Hardener (BPO) VOL OZ.PER GALLON OF RESIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30°F</td>
<td>12.7</td>
</tr>
<tr>
<td></td>
<td>40°F</td>
<td>9.0</td>
</tr>
<tr>
<td></td>
<td>50°F</td>
<td>7.5</td>
</tr>
<tr>
<td></td>
<td>60°F</td>
<td>5.5</td>
</tr>
<tr>
<td></td>
<td>70°F</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>90°F</td>
<td>1.8</td>
</tr>
</tbody>
</table>

See Epoxy.com Product #695 MMA Hardener Tech Data Sheet for more details and catalyzing Epoxy.com Product #691.

Spread Epoxy.com Product #691 Methyl Methacrylate (MMA) Flooring Primer evenly on the surface (no puddles) with notched trowels, and/or squeegees and back rolled with short nap mohair rollers at no less than 100 sq ft/gal. on very absorbent surfaces. Two coats may be necessary to get an even, resin-rich surface to bond with the next layer.

It is recommended to broadcast 16-30 mesh quartz sand (approximately 4 lbs/100 sq ft) into the wet primer. This will help in the application of the coating or troweled mortar. Apply next application only after the primer is completely hardened.

**PHYSICAL PROPERTIES MMA Primer #691**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent Reactive</td>
<td>100% (Zero VOC)</td>
</tr>
<tr>
<td>Working Life</td>
<td>10-15 min.</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Recoat Time</td>
<td>Approx. 60 min.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>250-270 cps</td>
</tr>
<tr>
<td>Weight per Gallon</td>
<td>8.3 lbs</td>
</tr>
</tbody>
</table>

**CLEAN UP**

Clean tools and equipment with lacquer thinner or MEK. Consult Material Safety Data Sheet for safety and health precautions.

**COVERAGE**

100 square feet per gallon, minimum thickness.

**STORAGE**

Store in a cool and dry place, below 80°F, out of direct sunlight. Do not store near open flame or food. Shelf life is 4 months in the original unopened containers.

**HELPFUL HINTS**

Adequate cross ventilation should be provided. Good ventilation during the processing ensures a good cross linking and hardening. Read, understand and follow Material Safety Data Sheets and Application Instructions prior to use. Use only as directed. If substrate and/or material temperature is above 90°F, DO NOT apply material.

**FOR INDUSTRIAL USE ONLY.**

**KEEP OUT OF REACH OF CHILDREN.**

Proper mixing and installation is critical to the optimal success of all product. See Installation Tips, Techdata, & MSDS for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

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